

FIG. 2

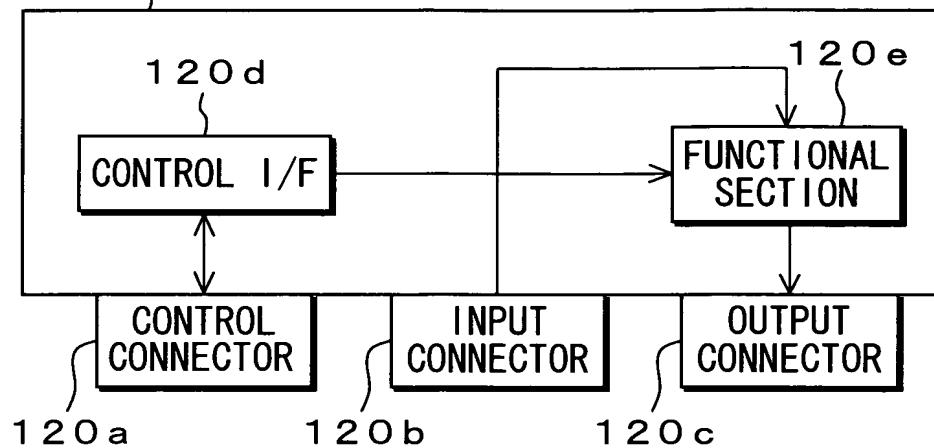


FIG. 3

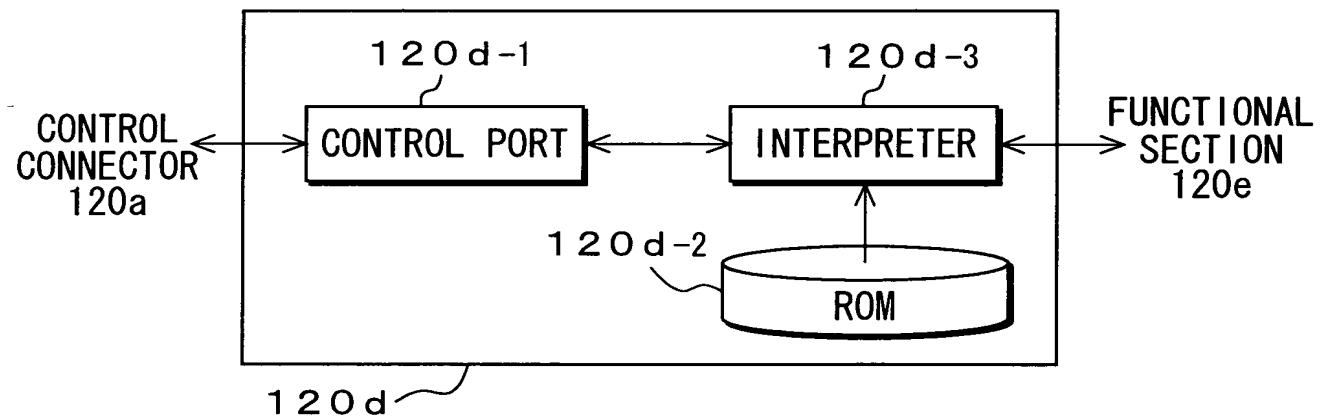
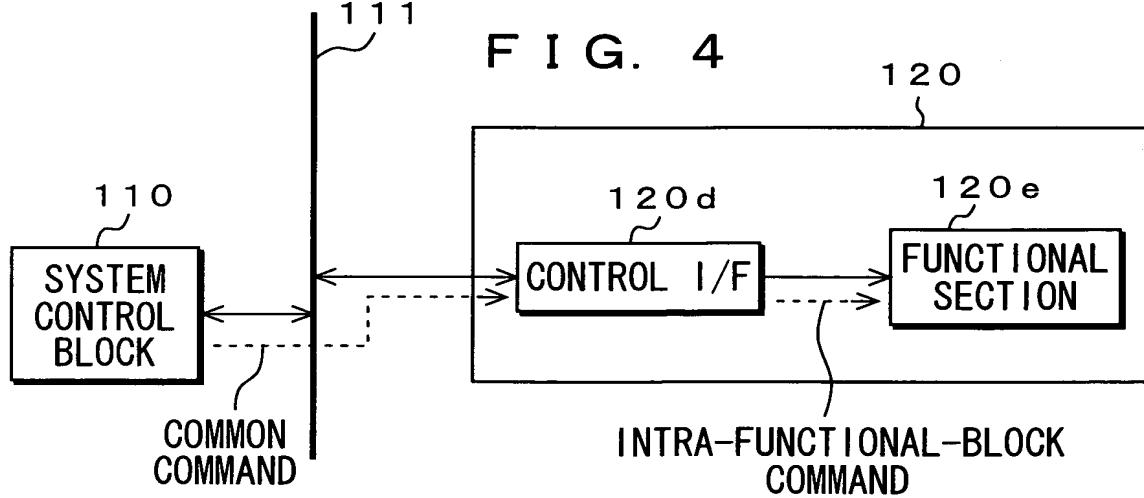


FIG. 4



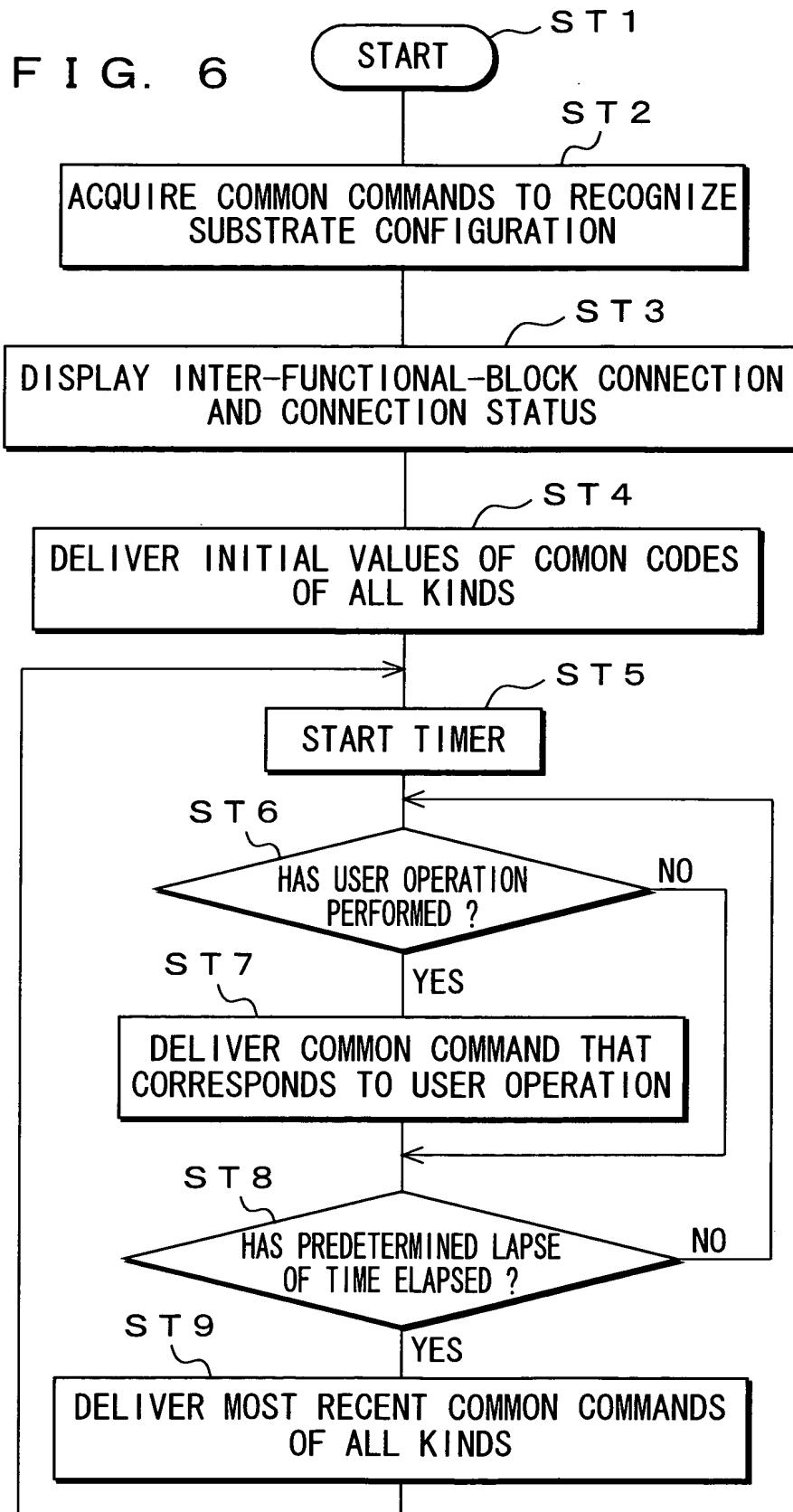
F 1 G. 5

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COMMON COMMANDS	MEANING OF COMMON COMMANDS	INITIAL VALUES	FUNCTIONAL BLOCKS IN CHARGE	INTRA-FUNCTIONAL-BLOCK COMMANDS	MEANING OF INTRA-FUNCTIONAL-BLOCK COMMANDS
ch(1) -ch(12)	CHANNEL Nos. 1-12	LAST MEMORY	1:U/V TUNER 8:CHILD-SCREEN OSD	ch(1-12) writeInputUch(1-12)	SWITCH OF CHANNEL
in(1)-in(3)	1: UHF/VHF; 2: DIGITAL TERRESTRIAL; 3: VIDEO	LAST MEMORY	2: INPUT SELECTOR 8:CHILD-SCREEN OSD	in(1-3) writeInput(1-3)	DISPLAY OF CHANNEL
DRCvolExec (on/off)	SWITCH OF DRC VOLUME PROCESSING	DRCvolExec (on)	8:CHILD-SCREEN OSD	writeProcessVol (on/off) displayInput (in1/in2) displaySize (in1, size1)/displaySize (in2, size1)	SWITCH OF INPUT DISPLAY OF INPUT
DRCvol (resolutionVal, noiseVal)	ADJUSTMENT OF DRC RESULTION AXIS AND NOISE AXIS	LAST MEMORY	4:DRC 8:CHILD-SCREEN OSD	volume (resolutionVal, noiseVal) writeProcessDRCvol (resolutionVal, noiseVal)	DISPLAY OF DRC VOLUME PROCESSING SWITCH OF CHILD-SCREEN INPUT SOURCE IMAGE SIZE
DRCzoomExec (on/off)	SWITCH OF DRC ZOOM PROCESSING	DRCzoomExec (off)	7:NOISE REMOVAL 4:DRC 8:CHILD-SCREEN OSD	noiseSuppress (noiseVal) zoom (initRatio/1, initH0/0, initVer/0) writeProcessZoom (on/off)	SUBSTITUTION OF NOISE SUPPRESSION ON VALUE SUBSTITUTION OF DRC ZOOM INITIAL VALUE DISPLAY OF DRC ZOOM PROCESSING
DRCzoom(ratioVal, horizontalVal, verticalVal)	ADJUSTMENT OF DRC ZOOM RATIO AND POSITIONS	DRCzoom (initRatio, initH0, initVer)	4:DRC 8:CHILD-SCREEN OSD	displayInput (in1, in2/in1 or in2) displaySize (in1, size1), displaySize (in2, size0/25) /displaySize (in1 or in2, size1)	SWITCH OF CHILD-SCREEN INPUT SOURCE IMAGE SIZE
InitializeConnect (1/2/3/4/5)	INTER-FUNCTIONAL-BLOCK CONNECTIONS 1-5			writeZoomFrame (initRatio, initH0, initVer/off) writeProcessDRCzoom (initRatio, initH0, initVer/off)	DISPLAY OF ZOOM FRAME ON CHILD SCREEN DISPLAY OF INITIAL VALUES OF DRC ZOOM RATIO AND POSITIONS
				zoom (ratioVal, horizontalVal, verticalVal) writeZoomFrame (ratioVal, horizontalVal, verticalVal)	SUBSTITUTION OF DRC ZOOM VALUE DISPLAY OF ZOOM FRAME ON CHILD SCREEN
				writeProcessDRCzoom (ratioVal, horizontalVal, verticalVal)	DISPLAY OF DRC ZOOM RATIO AND POSITIONS
				route (1/2/3)	SWITCH OF INTER-PROCESSING-SUBSTRATE CONNECTION
				writeRoute (1/2/3/4/5)	DISPLAY OF CONNECTION STATUS

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FIG. 6



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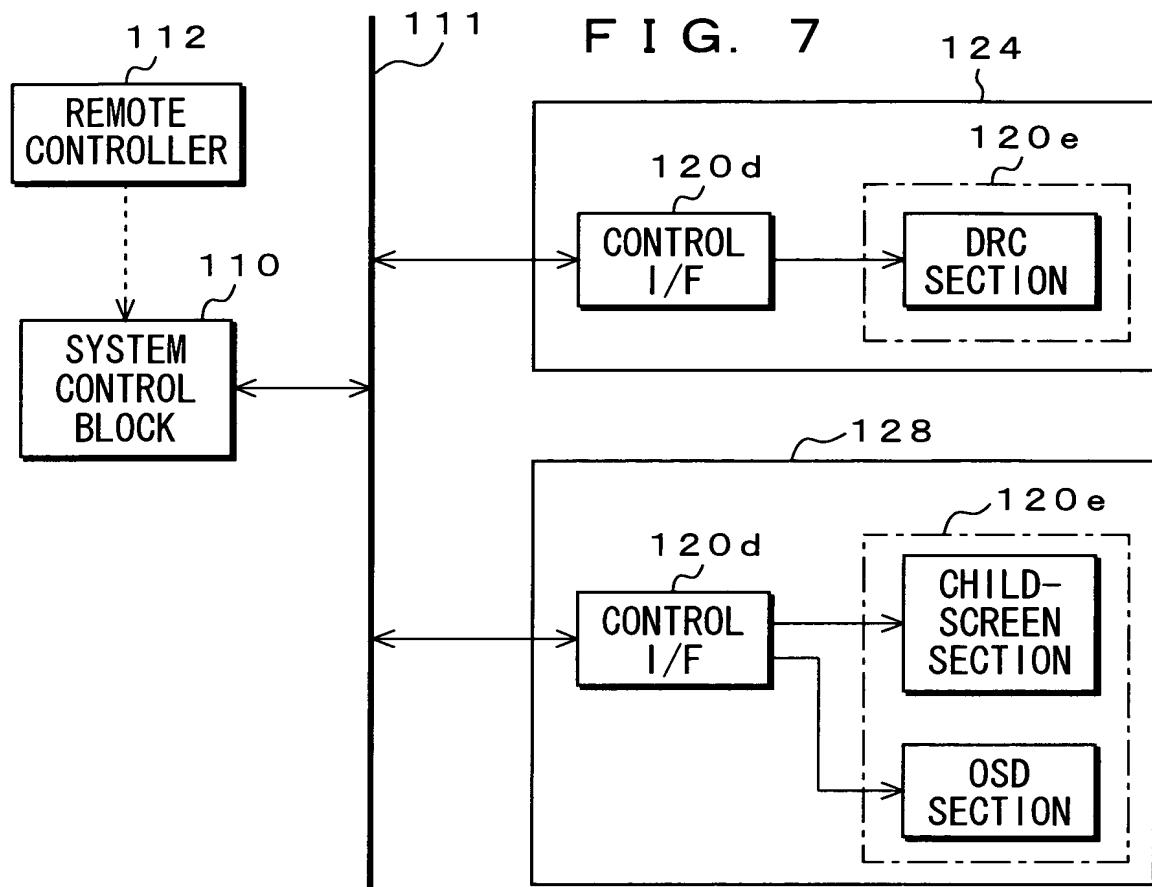


FIG. 8

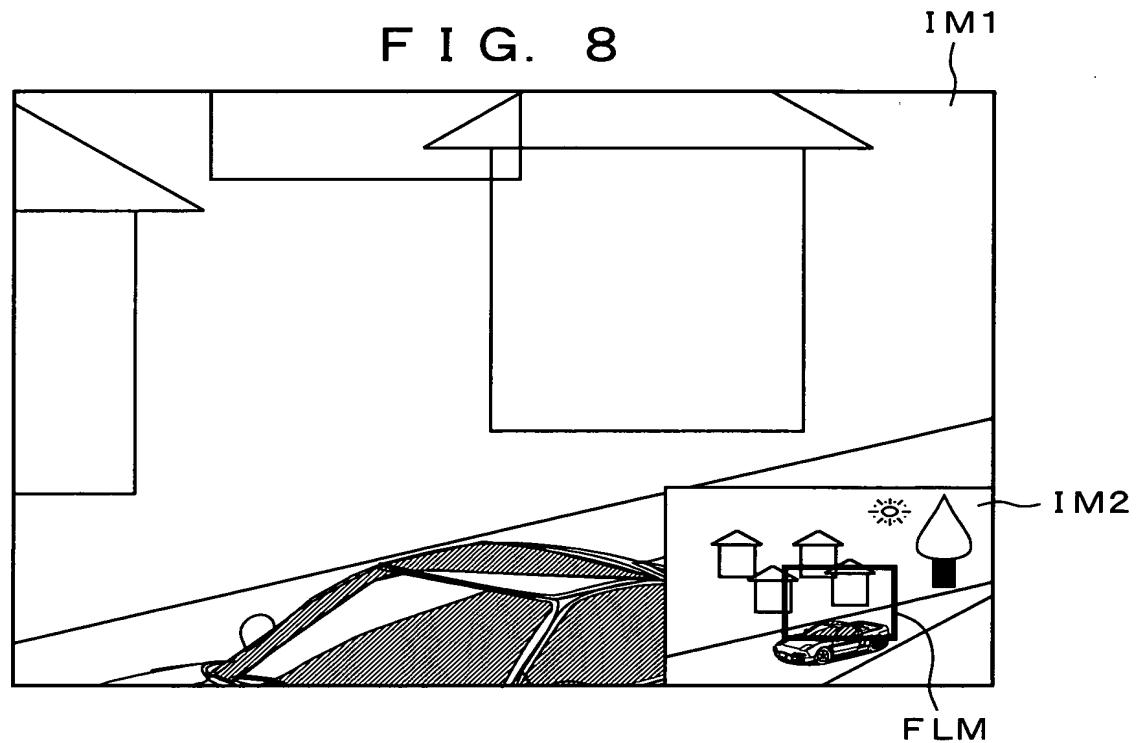


FIG. 9

100

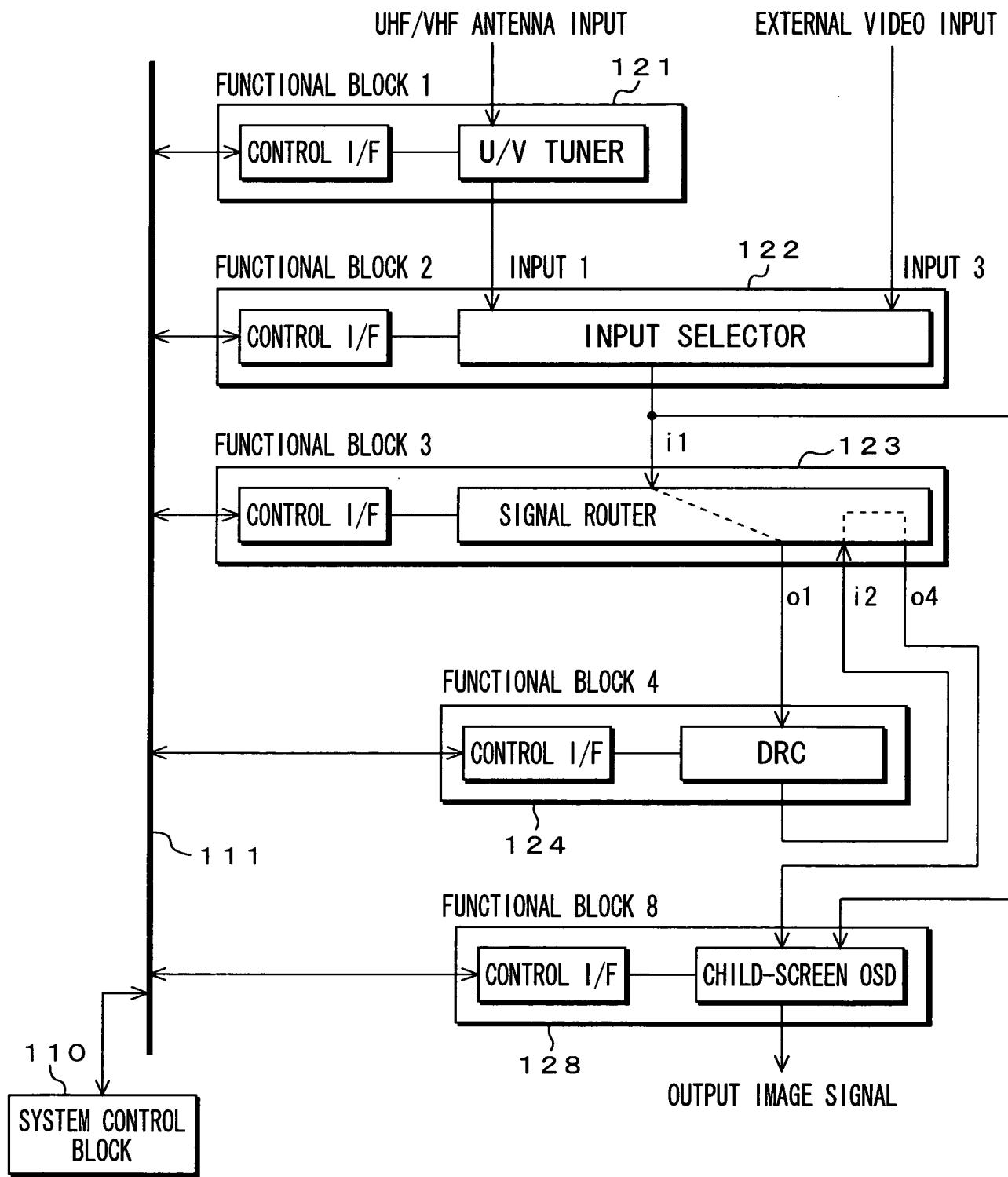


FIG. 10

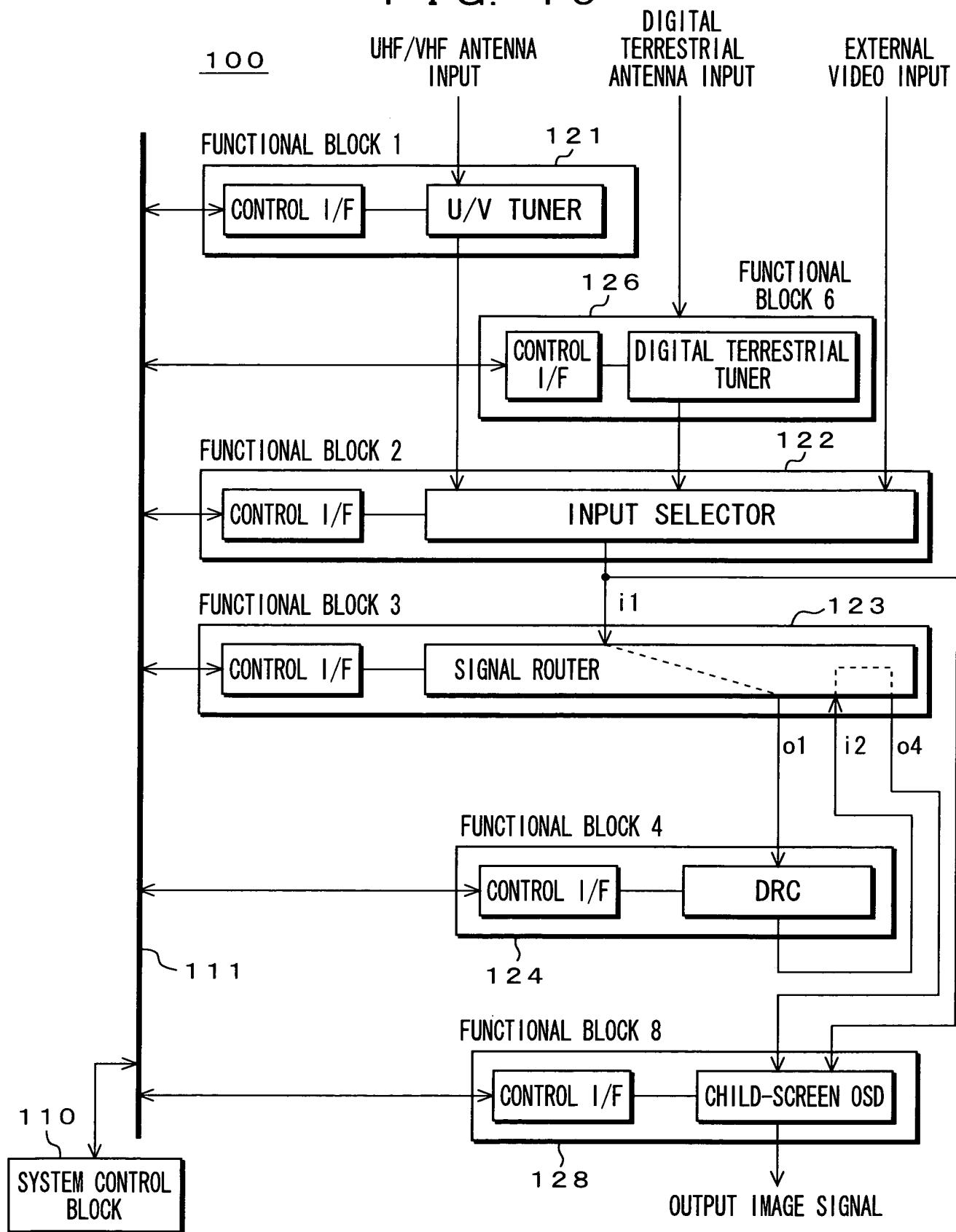


FIG. 11

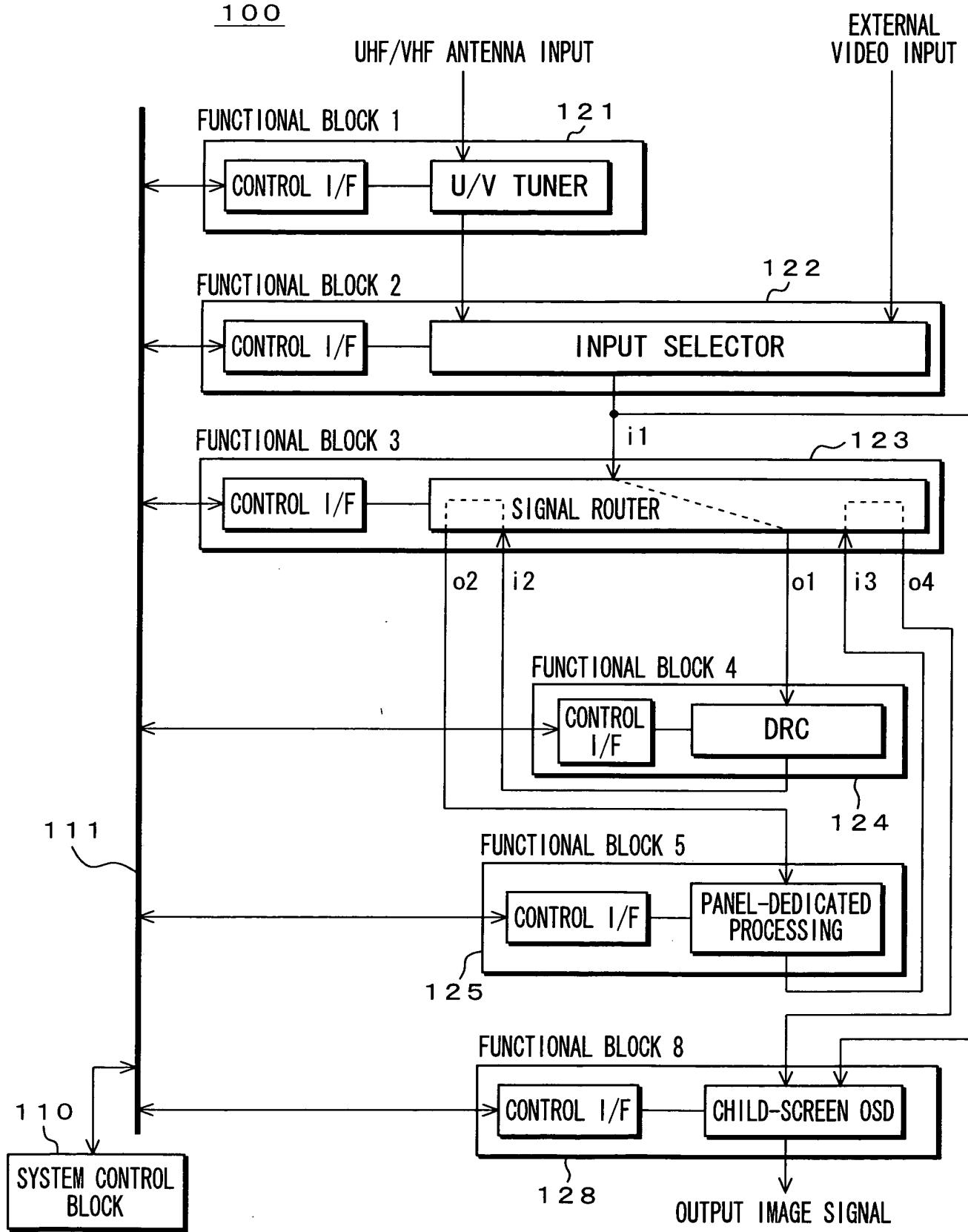


FIG. 12

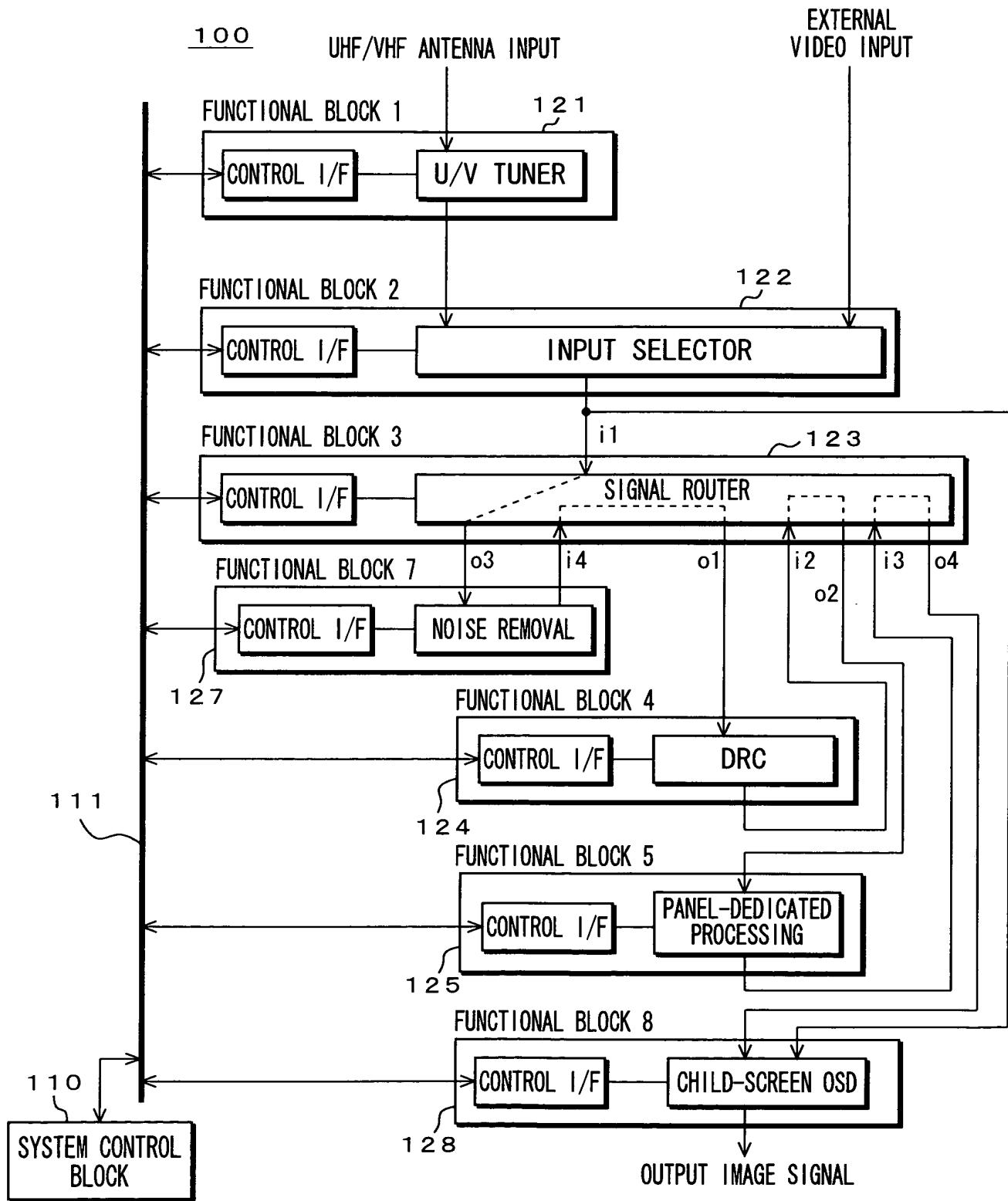


FIG. 13

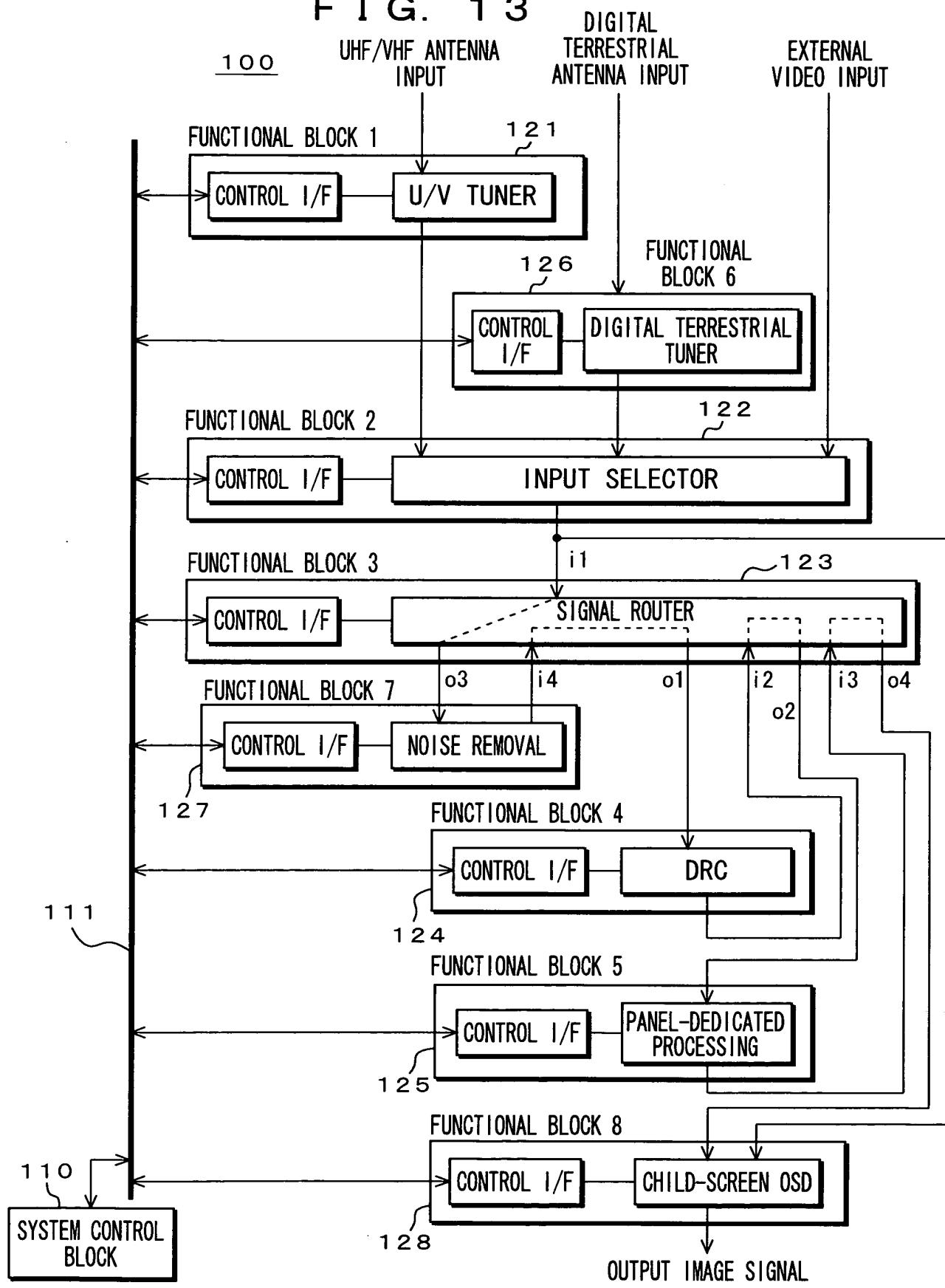


FIG. 14A

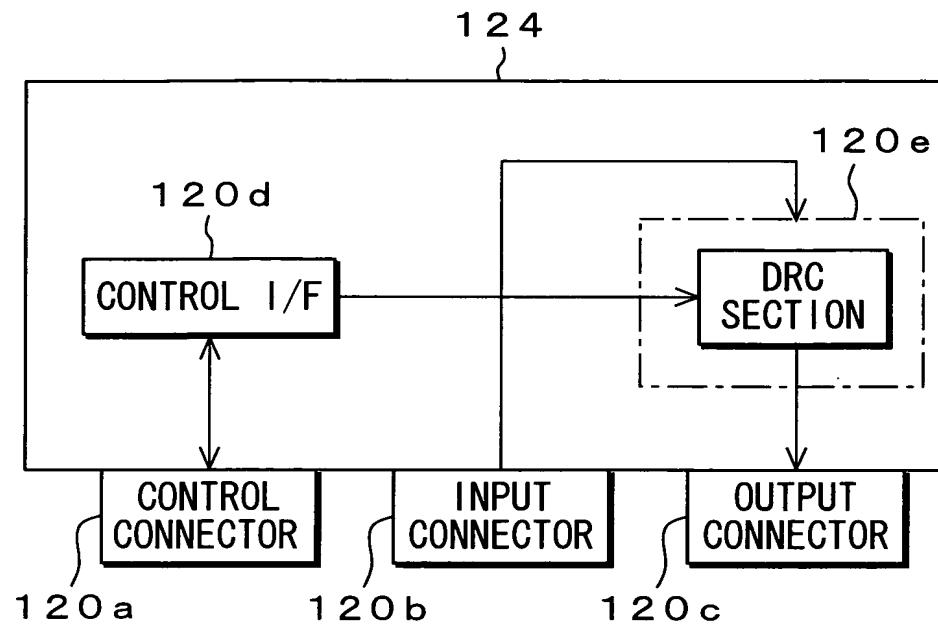
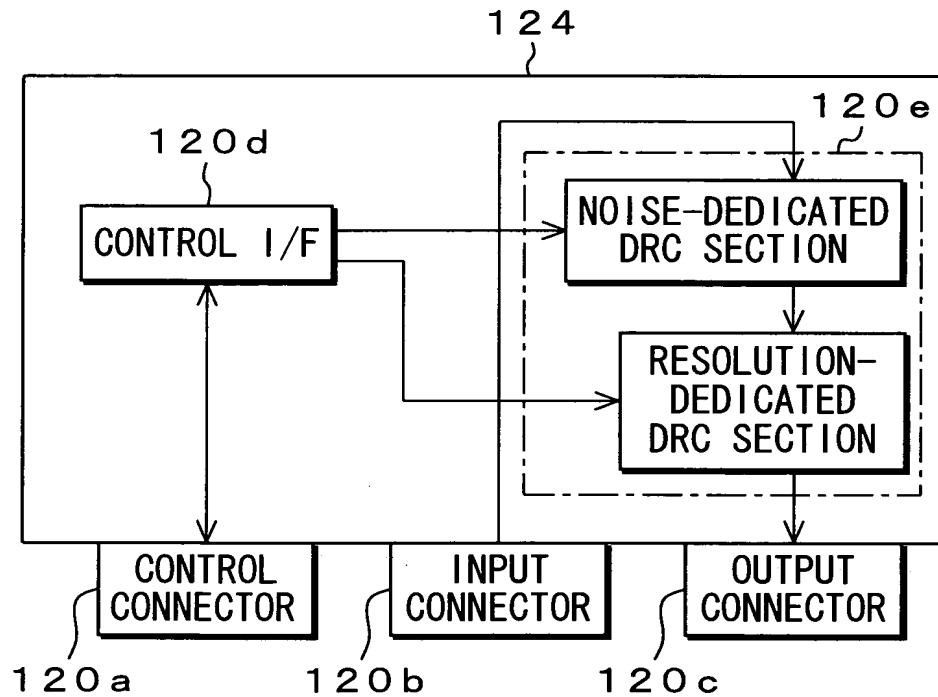


FIG. 14B



F1G. 15

1 2 / 2 7

COMMON COMMANDS	MEANING OF COMMON COMMANDS	INITIAL VALUES	FUNCTIONAL BLOCKS IN CHARGE	INTRA-FUNCTIONAL-BLOCK COMMANDS	MEANING OF INTRA-FUNCTIONAL-BLOCK COMMANDS
DRCvol (resolutionVal , noiseVal)	ADJUSTMENT OF DRC RESOLUTION AXIS AND NOISE AXIS	LAST MEMORY	4:DRC (VERSION UPGRADE)	volumeResolution (resolutionVal)	SUBSTITUTION OF DRC (RESOLUTION AXIS) VOLUME VALUE
DRCzoomExec (on/off)	SWITCH OF DRC ZOOM PROCESSING	DRCzoomExec (off)	4:DRC (VERSION UPGRADE)	volumeNoise (noiseVal)	SUBSTITUTION OF DRC (NOISE AXIS) VOLUME VALUE
DRCzoom(ratioVal, horizontalVal, verticalVal)	ADJUSTMENT OF DRC ZOOM RATIO AND POSITIONS	DRCzoom (InitRatio, InitHol, initVer)	4:DRC (VERSION UPGRADE)	zoom (InitRatio/1, InitHol/0, InitVer/0)	SUBSTITUTION OF DRC ZOOM INITIAL VALUE

FIG. 16

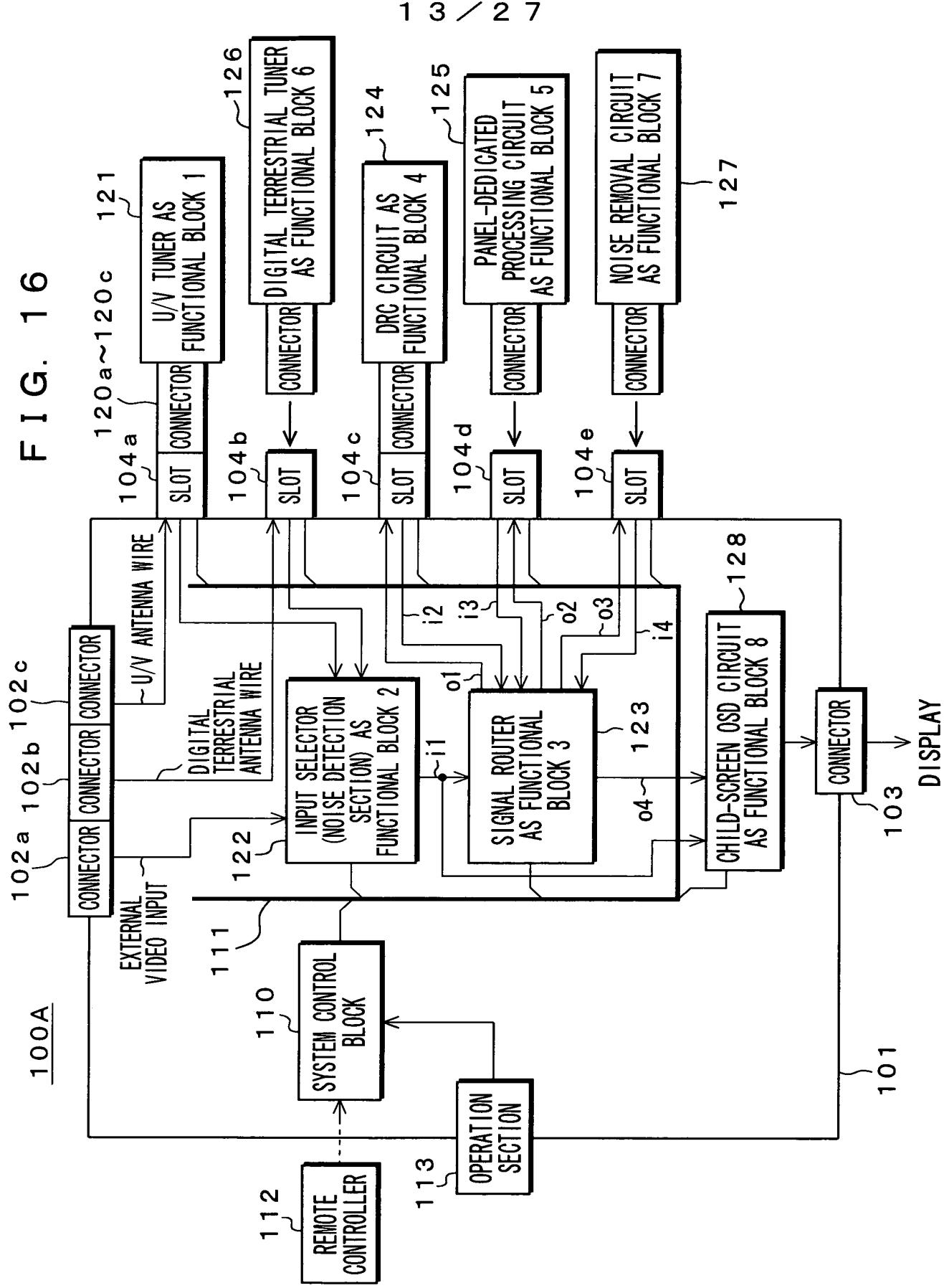


FIG. 17

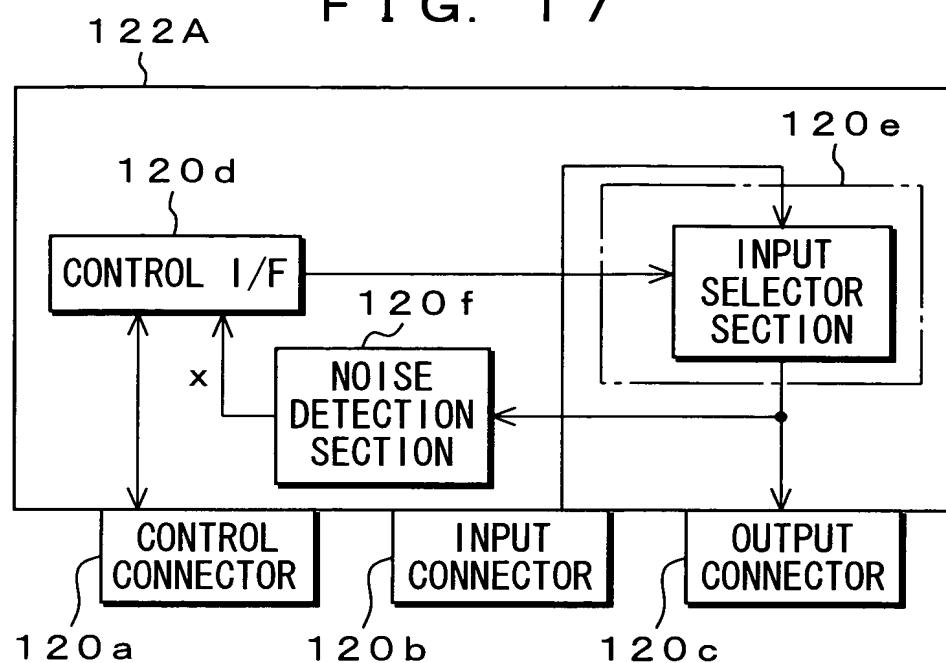


FIG. 18

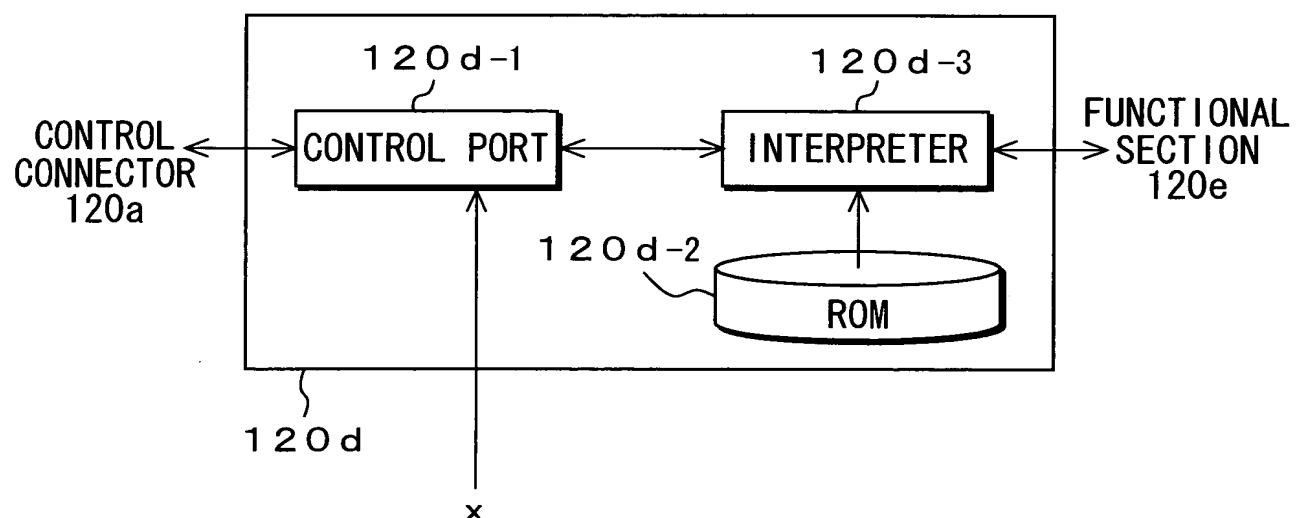


FIG. 19

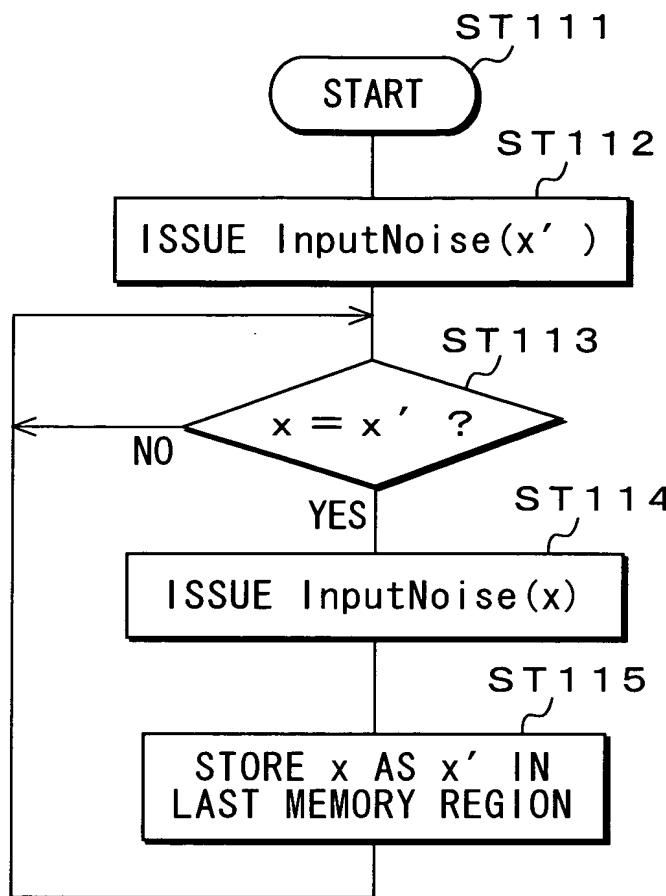


FIG. 20

COMMON COMMAND	MEANING OF COMMON COMMAND	INITIAL VALUE	FUNCTIONAL BLOCKS IN CHARGE	INTRA-FUNCTIONAL-BLOCK COMMANDS	MEANING OF INTRA-FUNCTIONAL-BLOCK COMMANDS
InputNoise (0-9)	INPUT NOISE LEVEL	LAST MEMORY	4:DRC	volumeNoise (noiseVal)	SUBSTITUTION OF DRC (NOISE AXIS) VOLUME VALUE
			7:NOISE REMOVAL	noiseSuppress (0-9)	SUBSTITUTION OF NOISE SUPPRESSION VALUE
			3:SIGNAL ROUTER	route (3/4)	SWITCH OF INTER-PROCESSING-SUBSTRATE CONNECTION
			8:CHILD-SCREEN OSD	writeInputNoise (0-9)	DISPLAY OF INPUT NOISE LEVEL

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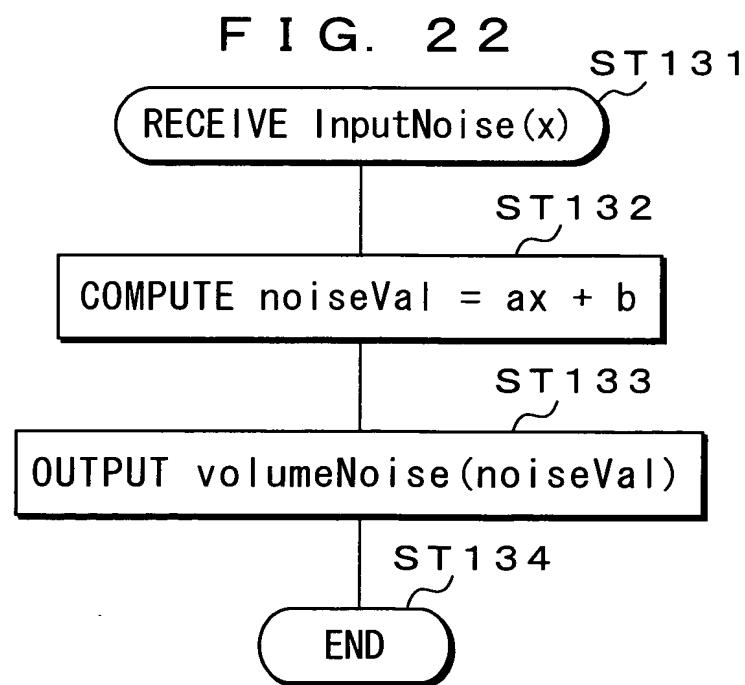
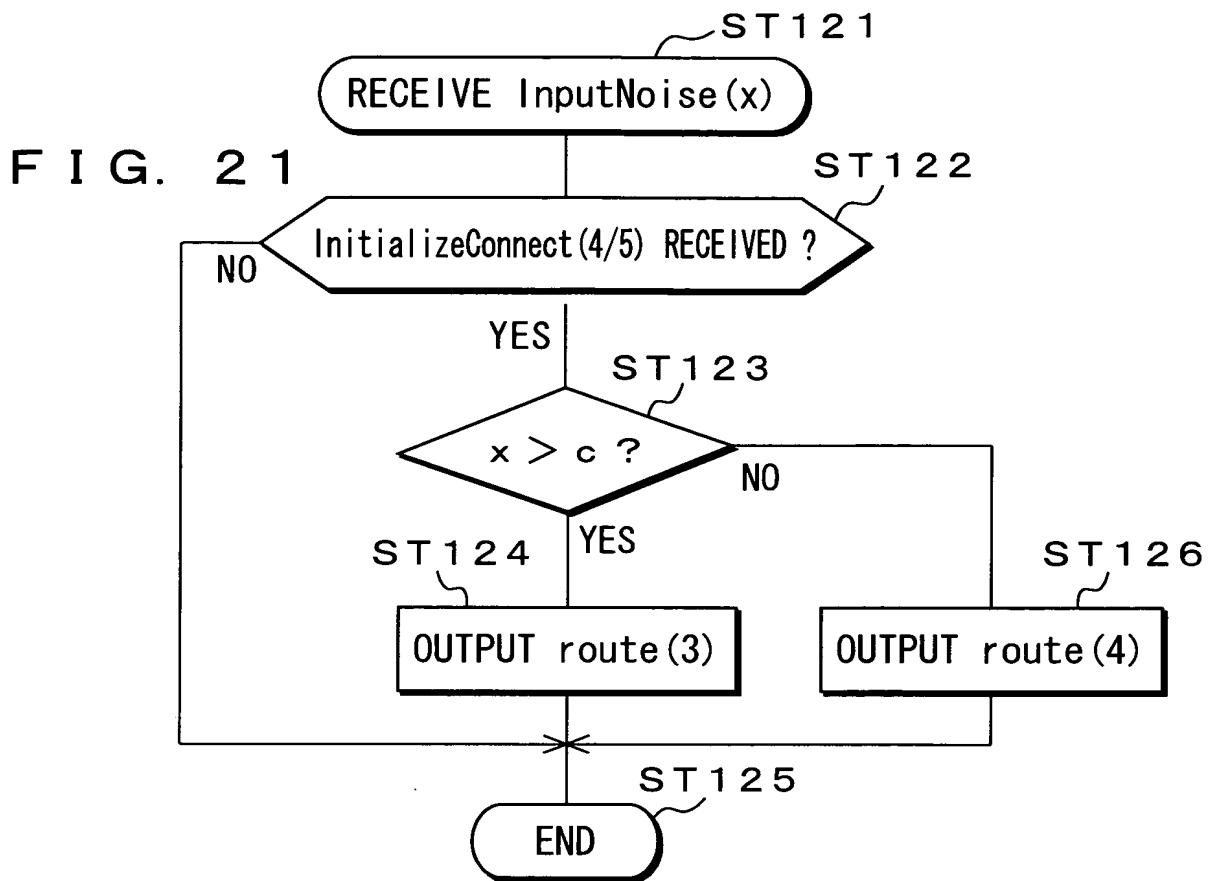


FIG. 23

100A

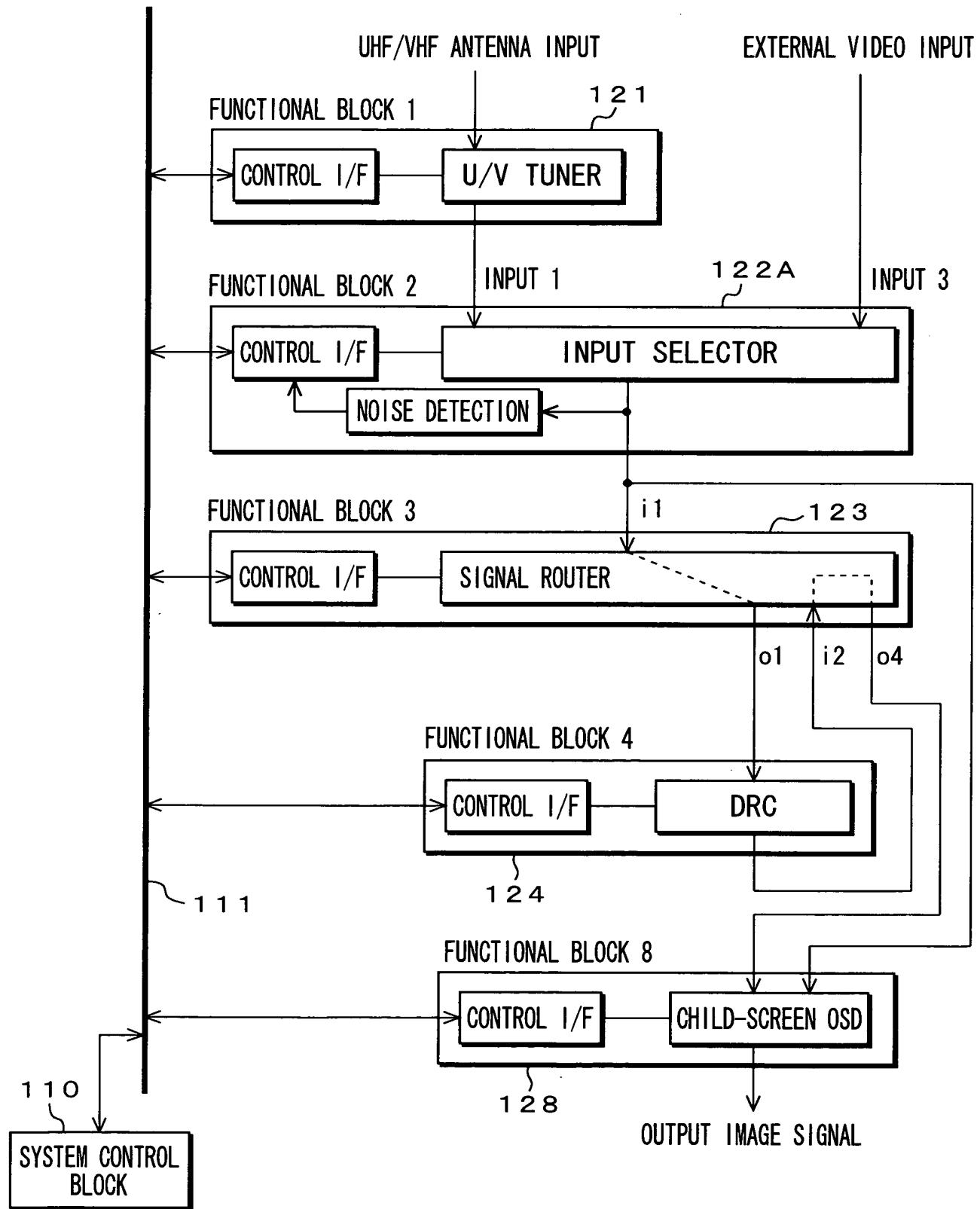


FIG. 24

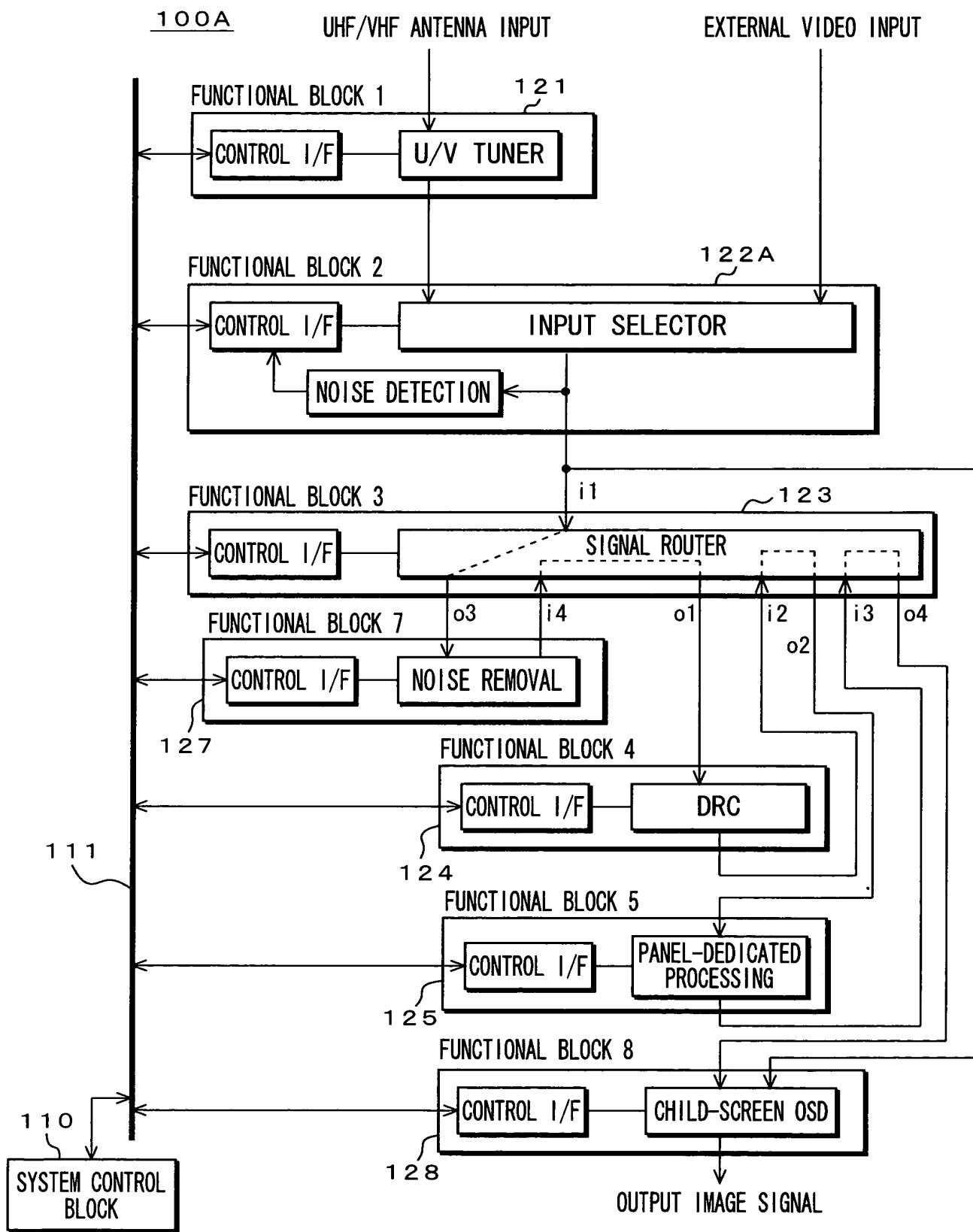


FIG. 25

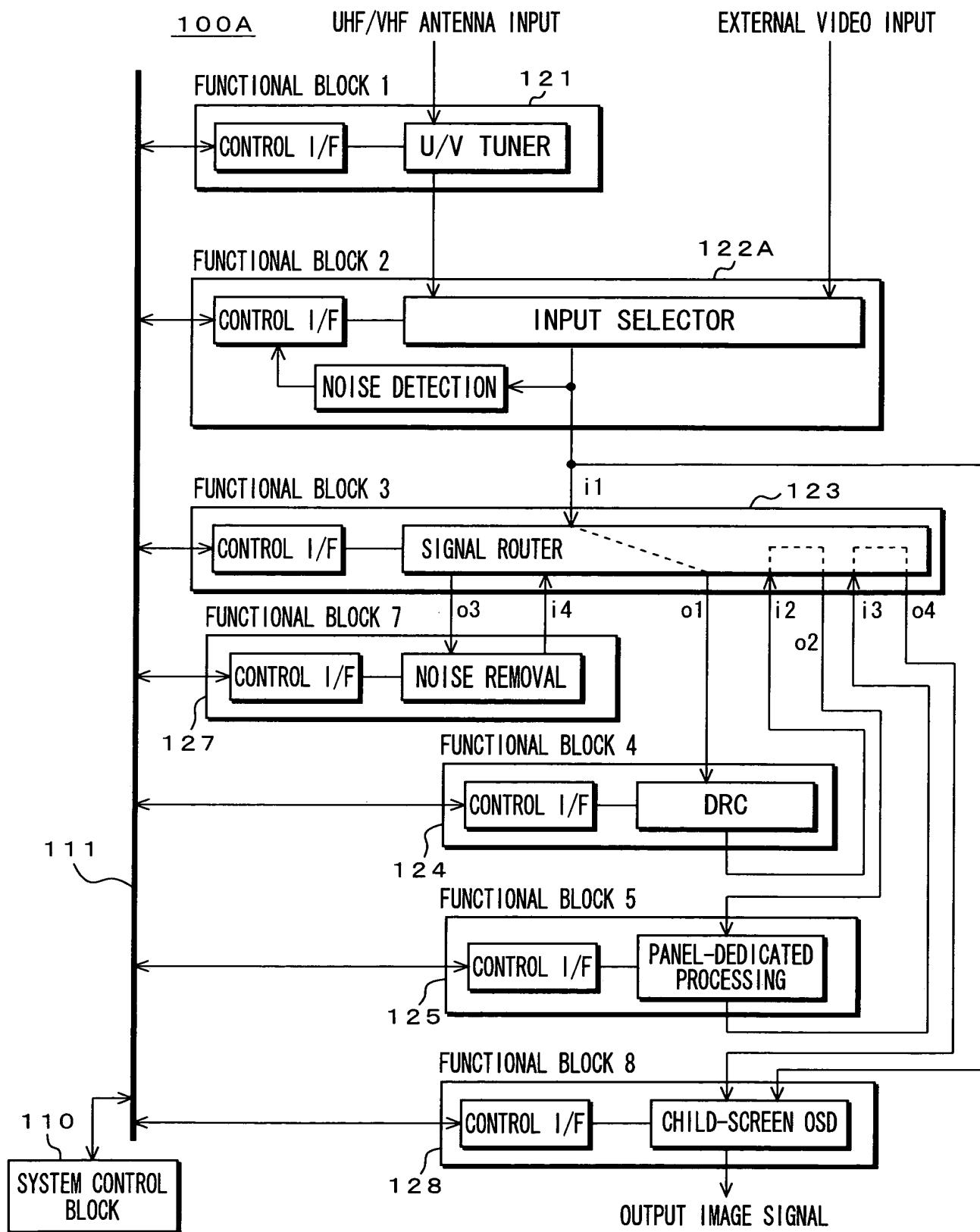
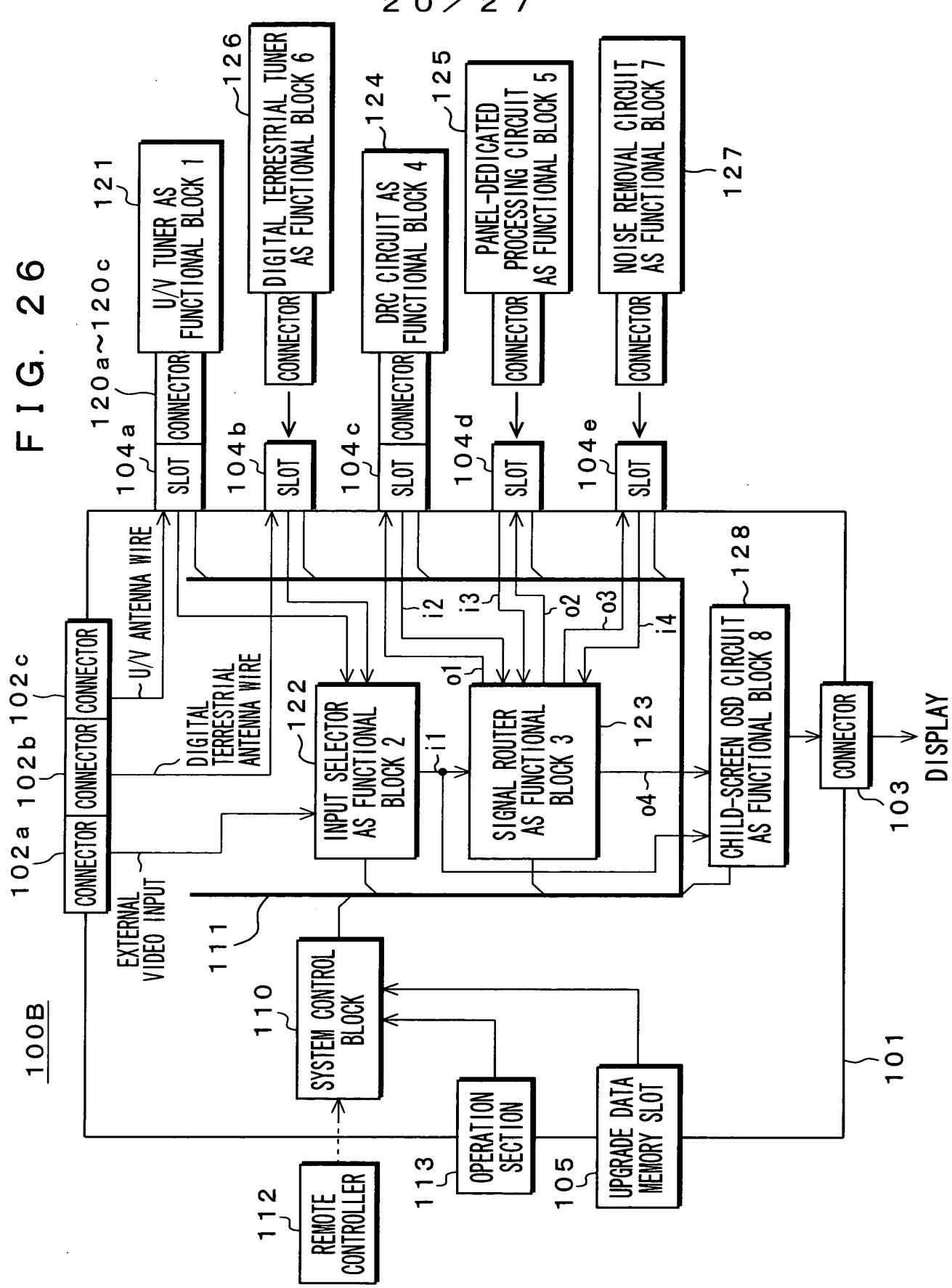


FIG. 26



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FIG. 27

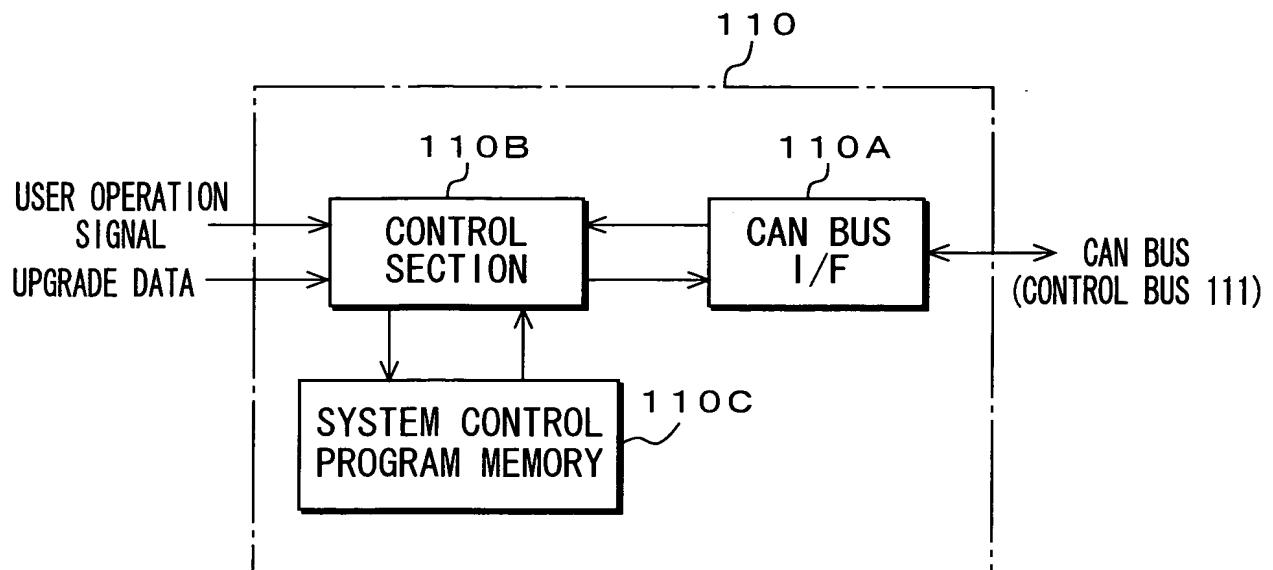
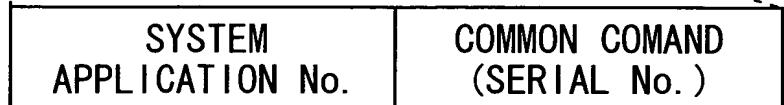


FIG. 28A



FIG. 28B



F I G. 2 9

2 2 / 2 7

COMMON COMMANDS	IDENTIFIERS (12 BIT)	MEANING OF COMMON COMMANDS	INITIAL VALUES	FUNCTIONAL BLOCKS IN CHARGE	INTRA-FUNCTIONAL-BLOCK COMMANDS	MEANING OF INTRA-FUNCTIONAL-BLOCK COMMANDS
ch(1)-ch(12)	0x001 -0x00C	CHANNEL Nos. 1-12	LAST MEMORY	1:U/V TUNER 8:CHILD-SCREEN OSD	ch(1-12) writeInputUvCh(1-12)	SWITCH OF CHANNEL
in(1)-in(3)	0xA01	1: UHF/VHF; 2: DIGITAL TERRESTRIAL; 3: VIDEO	LAST MEMORY	2:INPUT SELECTOR 8:CHILD-SCREEN OSD	in(1-3) writeInput(1-3)	DISPLAY OF CHANNEL
DRCVolExec (on/off)	0x501	SWITCH OF DRC VOLUME PROCESSING	DRCVol Exec (on)	8:CHILD-SCREEN OSD	writeProcessVol(on/off) displayInput(in1/in2)	SWITCH OF INPUT
DRCVol (resolutionVal, noiseVal)	0x502	ADJUSTMENT OF DRC RESOLUTION AXIS AND NOISE AXIS	LAST MEMORY	4:DRC	displaySize(in1, size1)/displaySize(in2, size1) volume(resolutionVal, noiseVal)	DISPLAY OF INPUT
Initialize Connect (1/2/3/4/5)	0x001	INTER-FUNCTIONAL-BLOCK CONNECTIONS 1-5	LAST MEMORY	8:CHILD-SCREEN OSD	volume(resolutionVal, noiseVal) writeProcessDRCVol(resolutionVal, noiseVal)	SWITCH OF INPUT
				7:NOISE REMOVAL	noiseSuppress(noiseVal)	SWITCH OF NOISE SUPPRESSION
				3: SIGNAL ROUTER	route(1/2/3)	SWITCH OF INTER-PROCESSING-SUBSTRATE CONNECTION
				8:CHILD-SCREEN OSD	writeRoute(1/2/3/4/5)	DISPLAY OF CONNECTION STATUS

F1 G. 30

COMMON COMMANDS	IDENTIFIERS (12 BIT)	MEANING OF COMMON COMMANDS	INITIAL VALUES	FUNCTIONAL BLOCKS IN CHARGE	INTRA-FUNCTIONAL-BLOCK COMMANDS	MEANING OF INTRA-FUNCTIONAL-BLOCK COMMANDS
ch(1)-ch(12)	0xC001 -0x00C	CHANNEL Nos. 1-12	LAST MEMORY	1:U/V TUNER 8:CHILD-SCREEN OSD	ch(1-12) writeInputUvCh(1-12)	SWITCH OF CHANNEL
in(1)-in(3)	0xA01	1: UHF/VHF; 2: DIGITAL TERRESTRIAL; 3: VIDEO	LAST MEMORY	2: INPUT SELECTOR 8:CHILD-SCREEN OSD	in(1-3) writeInput(1-3)	DISPLAY OF CHANNEL
DRCvolExec (on/off)	0x501	SWITCH OF DRC VOLUME PROCESSING	DRCvol Exec (on)	8:CHILD-SCREEN OSD	writeProcessVol (on/off) displayInput (in1/in2)	SWITCH OF INPUT
DRCvol (resolutionVal, noiseVal)	0x502	ADJUSTMENT OF DRC RESOLUTION AXIS AND NOISE AXIS	LAST MEMORY	4:DRC	displaySize (in1, size1)/displaySize (in2, size1) volume (resolutionVal, noiseVal)	DISPLAY OF INPUT
DRCzoomExec (on/off)	0x503	SWITCH OF DRC ZOOM PROCESSING	DRCzoom Exec (off)	8:CHILD-SCREEN OSD	writeProcessDRCvol (resolutionVal, noiseVal) noiSeeSuppress (noiseVal)	DISPLAY OF DRC VOLUME SOURCE
DRCzoom (ratioVal, horizontalVal, verticalVal)	0x504	ADJUSTMENT OF DRC ZOOM RATIO AND POSITIONS		4:DRC	zoom (initRatio, initHt, initVer) displayInput (in1, in2/in1 or in2)	IMAGE SIZE
Initialize Connect (1/2/3/4/5)	0x001	INTER-FUNCTIONAL-BLOCK CONNECTIONS 1-5	LAST MEMORY	8:CHILD-SCREEN OSD	writeZoomFrame (initRatio, initHt, initVer) writeProcessDRCzoom (ratioVal, horizontalVal, verticalVal)	DISPLAY OF DRC (RESOLUTION AXIS, NOISE AXIS) VOLUME VALUE
					writeZoomFrame (initRatio, initHt, initVer/off) writeProcessDRCzoom (initRatio, initHt, initVer/off)	DISPLAY OF NOISE SUPPRESSION VALUE
					zoom (ratioVal, horizontalVal, verticalVal) writeZoomFrame (ratioVal, horizontalVal, verticalVal)	DISPLAY OF DRC ZOOM INITIAL VALUE
					displaySize (in1, size1), displaySize (in2, size1) /displaySize (in1 or in2, size1)	DISPLAY OF DRC ZOOM PROCESSING
					displayInput (in1, in2/in1 or in2)	SWITCH OF CHILD-SCREEN INPUT SOURCE
					displaySize (in1, size1), displaySize (in2, size1) /displaySize (in1 or in2, size1)	IMAGE SIZE
					writeZoomFrame (initRatio, initHt, initVer) writeProcessDRCzoom (initRatio, initHt, initVer)	DISPLAY OF ZOOM FRAME ON CHILD SCREEN
					zoom (ratioVal, horizontalVal, verticalVal) writeZoomFrame (ratioVal, horizontalVal, verticalVal)	DISPLAY OF INITIAL VALUES OF DRC ZOOM RATIO AND POSITIONS
					writeProcessDRCzoom (ratioVal, horizontalVal, verticalVal)	DISPLAY OF DRC ZOOM VALUE
					zoom (ratioVal, horizontalVal, verticalVal)	DISPLAY OF ZOOM FRAME ON CHILD SCREEN
					route (1/2/3)	DISPLAY OF DRC ZOOM RATIO AND POSITIONS
					route (1/2/3/4/5)	SWITCH OF INTER-PROCESSING-SUBSTRATE CONNECTION
					writeRoute (1/2/3/4/5)	DISPLAY OF CONNECTION STATUS

FIG. 31

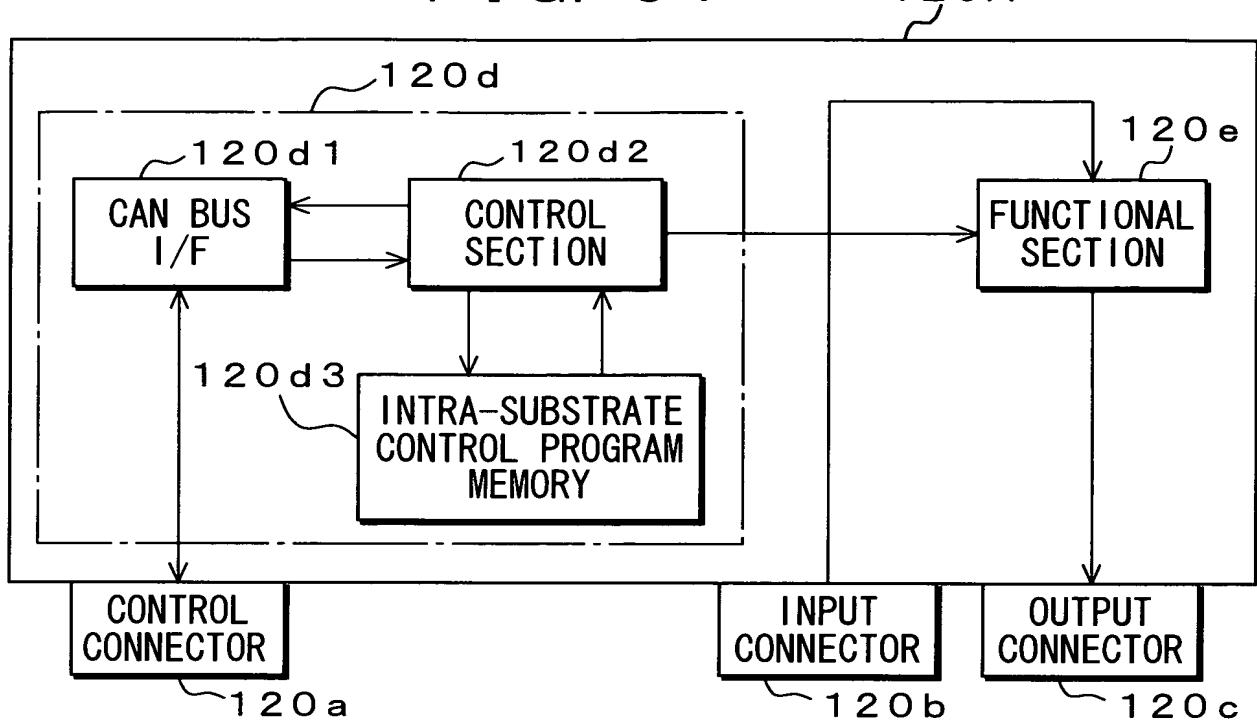


FIG. 32

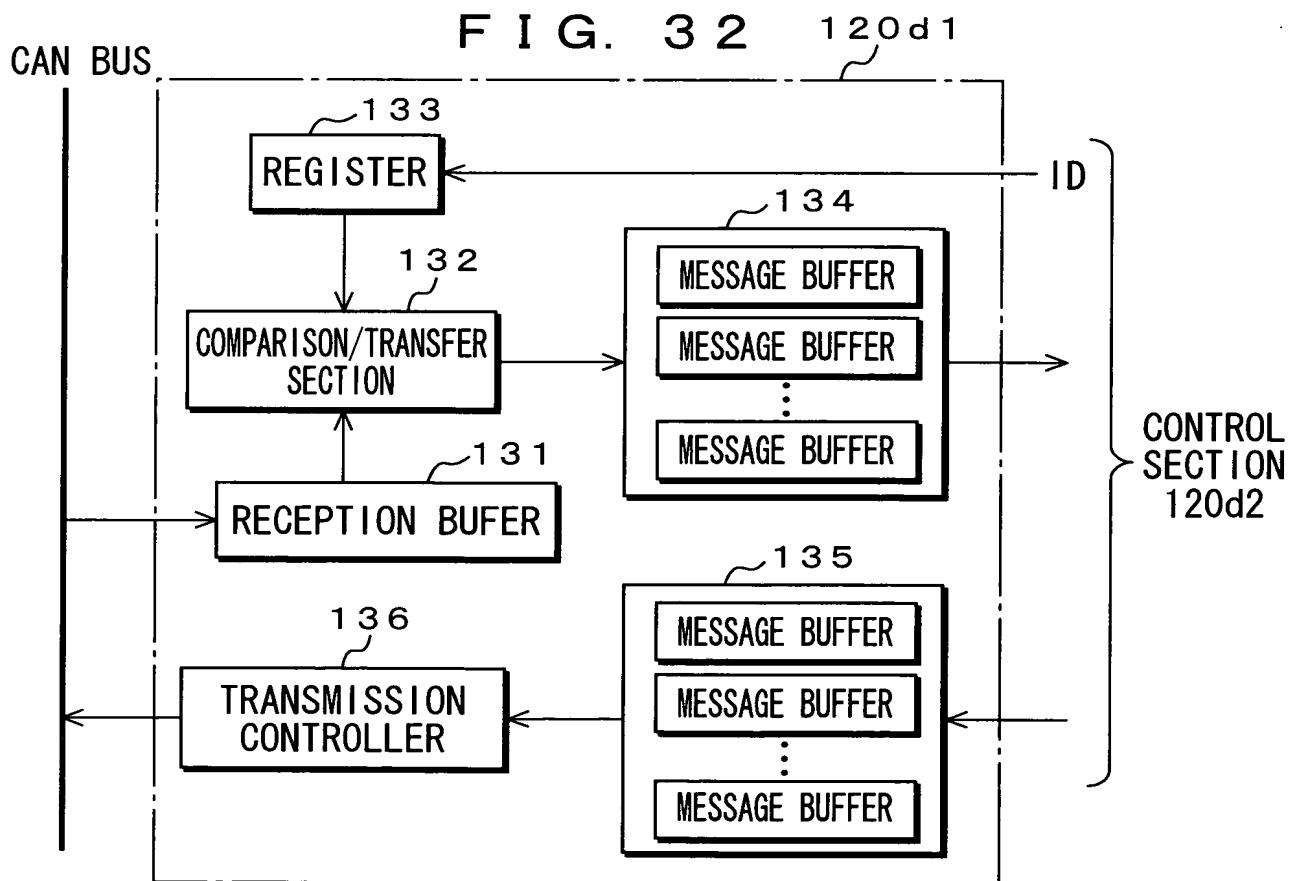


FIG. 33A

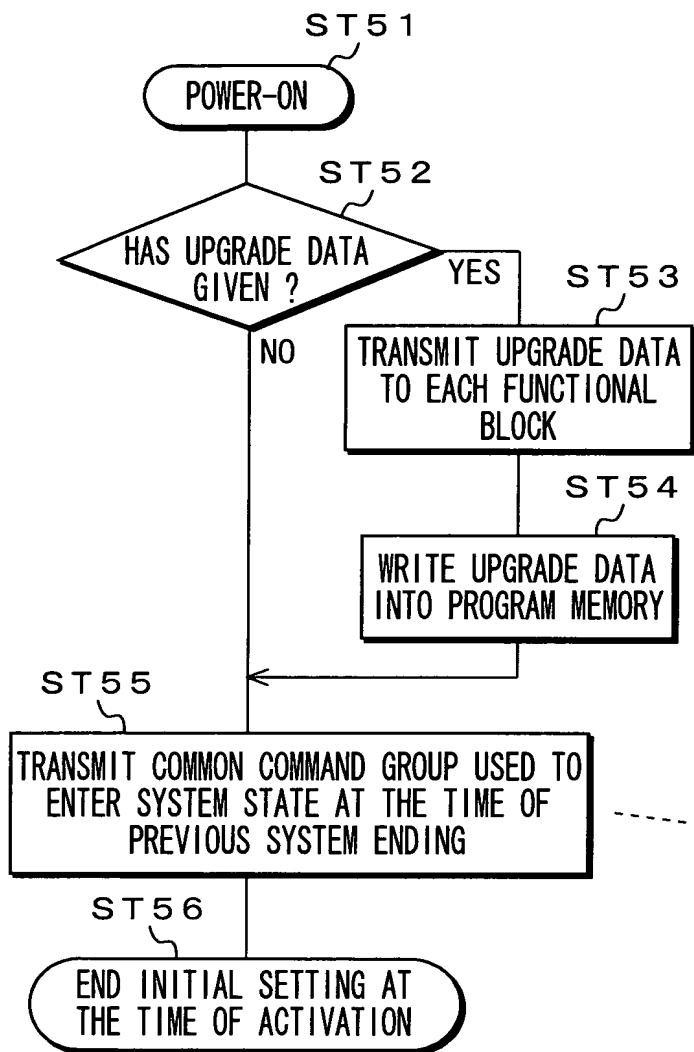


FIG. 33B

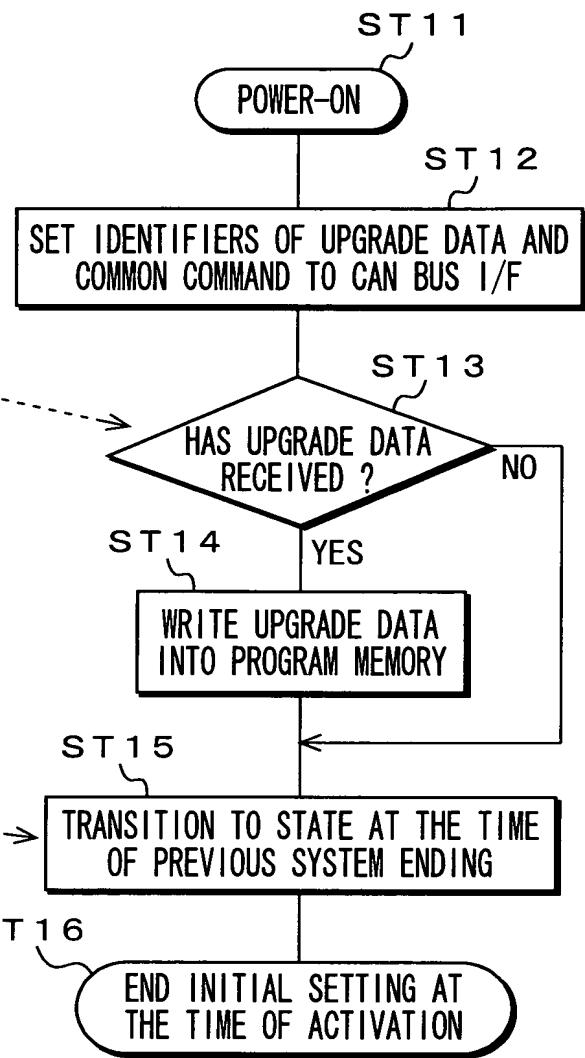


FIG. 34

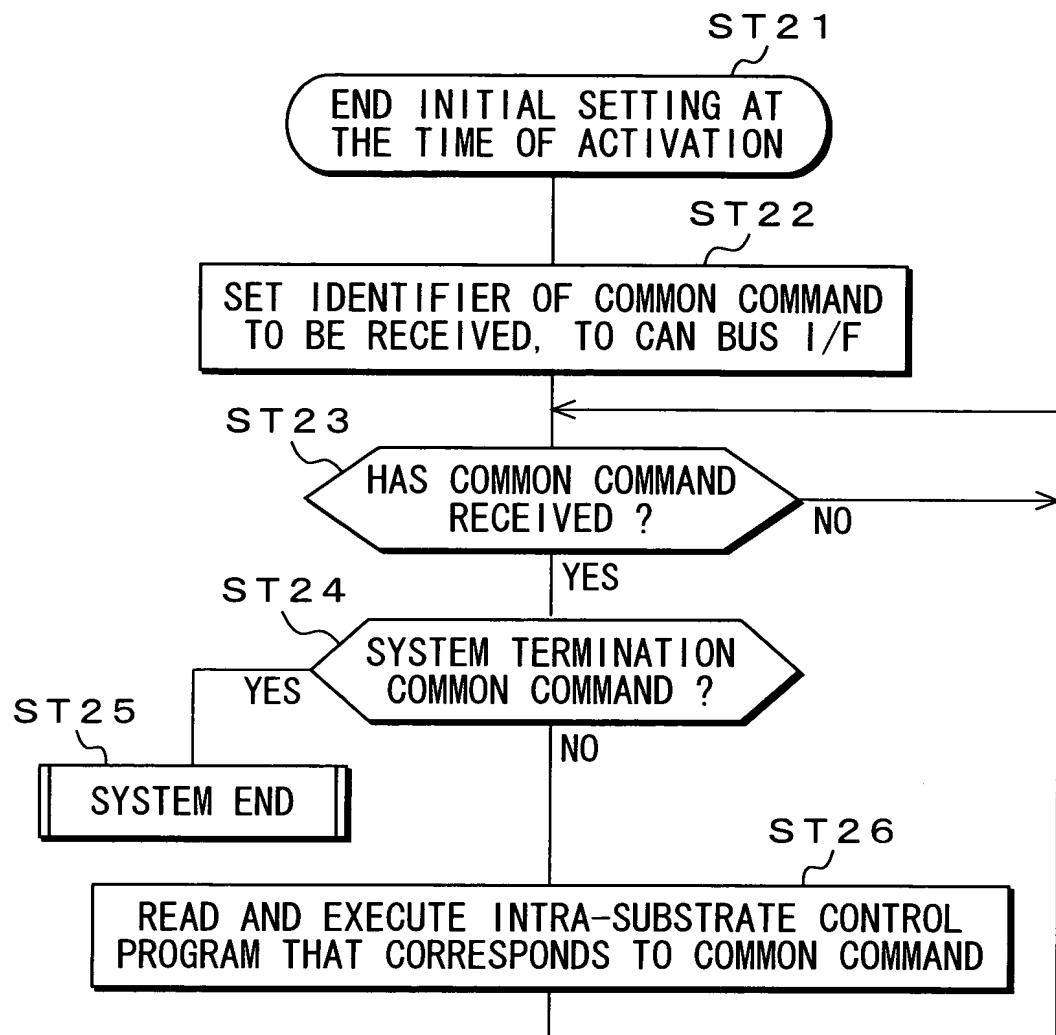


FIG. 35A

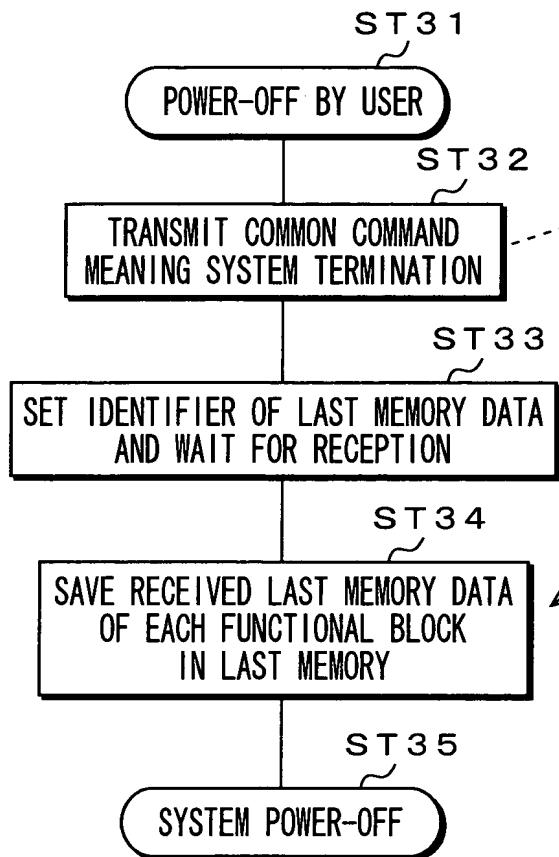


FIG. 35B

